

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF US301 AT GOVERNORS BRIDGE ROAD/HARBOUR WAY IN PRINCE GEORGES COUNTY. US 301 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A FULLY-ACTUATED MODE USING 6 NEMA PHASES. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR BOTH NORTH AND SOUTHBOUND MOVEMENTS OF US 301. THE US 301 NORTH AND SOUTHBOUND THROUGH MOVEMENTS OPERATE CONCURRENTLY. THE GOVERNORS BRIDGE ROAD AND HARBOUR WAY APPROACHES OPERATE AS A SIDE STREET SPLIT. A RIGHT TURN OVERLAP EXISTS FOR GOVERNORS BRIDGE ROAD MOVEMENT AND ONE WILL BE ADDED FOR THE HARBOUR WAY MOVEMENT.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. BRIAN YOUNG, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358
MR. DUANE BERNARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7358
MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 615-7304
MR. AUGIE REBISH, UTILITY ENGINEER
PHONE: (301) 513-7350
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

NONE.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LS	LS	MAINTENANCE OF TRAFFIC
LS	LS	MOBILIZATION
1	EA	VIDEO DETECTOR RETRO-PACK W/POWER SUPPLY
2	EA	TERRA VIDEO DETECTOR CAMERA
325	LF	TERRA VIDEO DETECTOR CAMERA CABLE (NO 18 A.W.G.)
1	EA	TERRA VIDEO DETECTOR CAMERA INTERFACE PANEL (1 FOR EVERY 8 CAMERAS)
2	EA	12 IN. 4-SECTION LED SIGNAL HEAD - SPAN WIRE
2	EA	12 IN. 5-SECTION LED SIGNAL HEAD - SPAN WIRE
1	EA	48 IN. X 75 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT
3	EA	30 IN. X 36 IN. REGULATORY SIGN - SPAN WIRE
1	EA	18 IN. X 18 IN. WARNING SIGN - GROUND MOUNTED
1	EA	24 IN. X 24 IN. REGULATORY SIGN - SPAN WIRE
32	LF	4 IN. X 6 IN. WOOD SIGN SUPPORTS
1050	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
100	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
2	EA	RELOCATE EXISTING SIGN - SPAN
1	EA	RELOCATE EXISTING SIGN - GROUND

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
1	EA	12 IN. 3-SECTION SIGNAL HEAD - SPAN WIRE
2	EA	12 IN. 4-SECTION SIGNAL HEAD - SPAN WIRE
1	EA	12 IN. 5-SECTION SIGNAL HEAD - SPAN WIRE

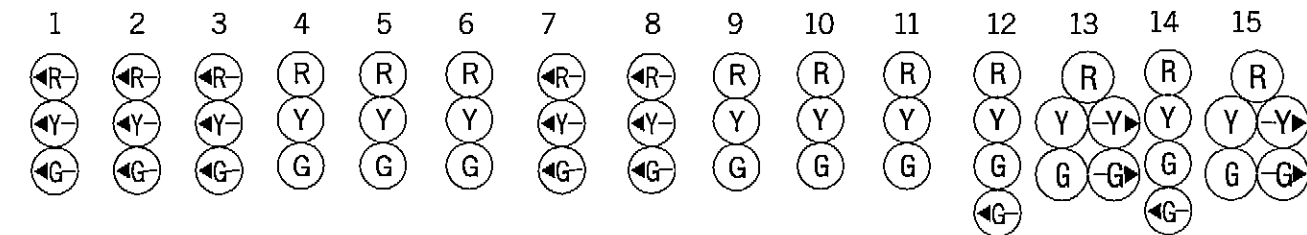
GENERAL NOTES

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- ALL UNUSED CABLE SHALL BE REMOVED.
- CONTRACTOR TO CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION AT (410) 787-7652.

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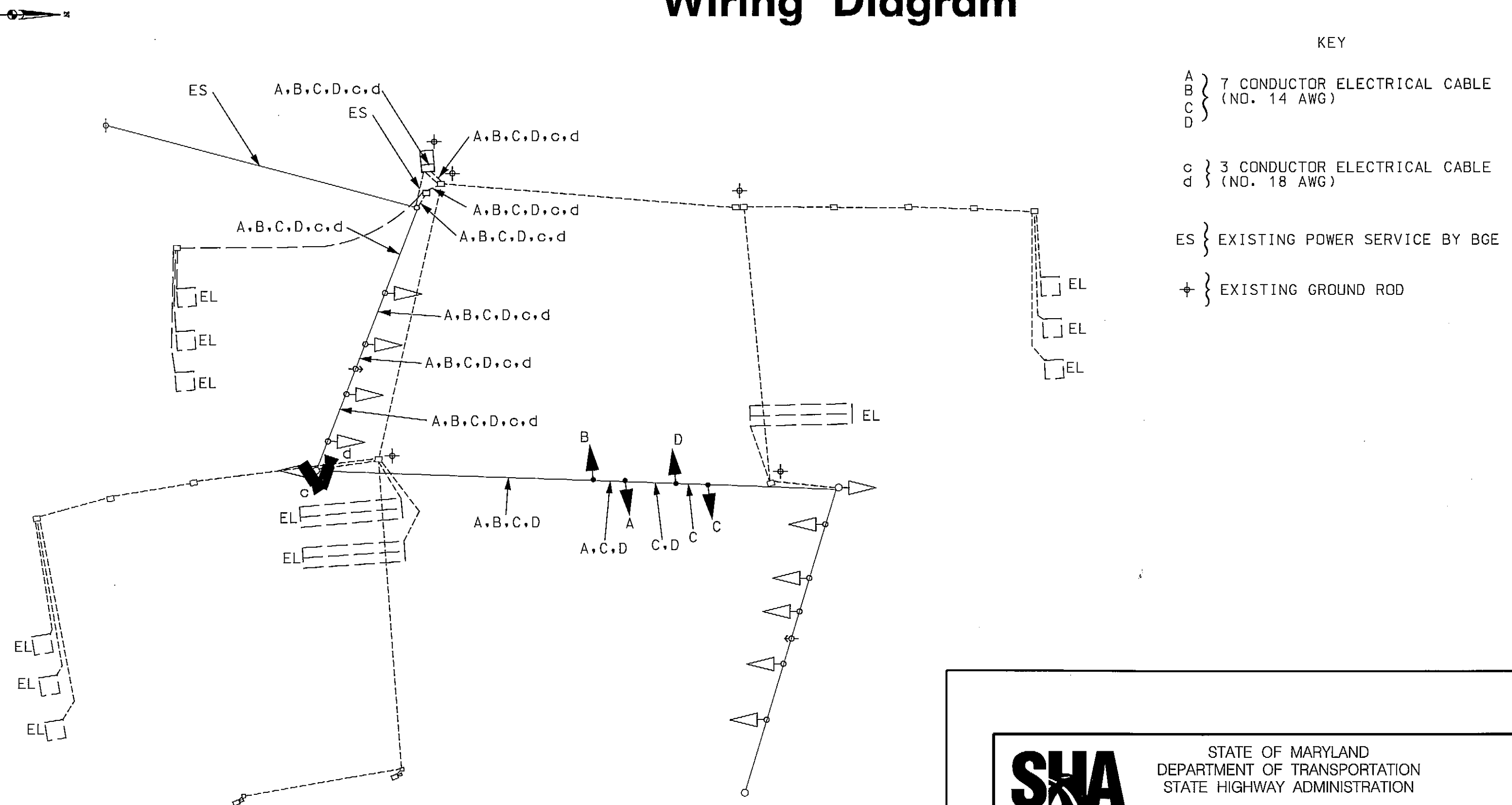
BY: JStorck

Phase Chart



PHASE 1 AND 5	←G-	←G-	←G-	R	R	R	←G-	←G-	R	R	R	R	R	R	R	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																	
PHASE 1 AND 6	←G-	←G-	←G-	G	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R
1 AND 6 CHANGE	←Y-	←Y-	←Y-	G	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	←R-	←R-	←R-	R	R	R	←G-	←G-	G	G	G	R	R	R	R	R	R
2 AND 5 CHANGE	←R-	←R-	←R-	R	R	R	←Y-	←Y-	G	G	G	R	R	R	R	R	R
PHASE 2 AND 6	←R-	←R-	←R-	G	G	G	←R-	←R-	G	G	G	R	R	R	R	R	R
2 AND 6 CHANGE	←R-	←R-	←R-	Y	Y	Y	←R-	←R-	Y	Y	Y	R	R	R	R	R	R
PHASE 3	←R-	←R-	←R-	R	R	R	←R-	←R-	R	R	R	←G-	G	R	R	R	R
3 CHANGE	←R-	←R-	←R-	R	R	R	←R-	←R-	R	R	R	Y	Y	R	R	R	R
PHASE 4	←R-	←R-	←R-	R	R	R	←R-	←R-	R	R	R	R	R	R	←G-	G	G
4 CHANGE	←R-	←R-	←R-	R	R	R	←R-	←R-	R	R	R	R	R	R	Y	Y	Y
EMERGENCY PRE-EMPTION (A)	←R-	←R-	←R-	R	R	R	←G-	←G-	G	G	G	R	R	R	R	R	R
PRE-EMPTION CHANGE	←R-	←R-	←R-	R	R	R	←Y-	←Y-	G	G	G	R	R	R	R	R	R
EMERGENCY PRE-EMPTION (B)	←G-	←G-	←G-	G	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R
PRE-EMPTION CHANGE	←Y-	←Y-	←Y-	G	G	G	←R-	←R-	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL4R	FL4R	FL4R	FL4Y	FL4Y	FL4Y	FL4R	FL4R	FL4Y	FL4Y	FL4Y	FL4R	FL4R	FL4Y	FL4Y	FL4Y	FL4Y

Wiring Diagram



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 301 (CRAIN HWY) AT
GOVERNORS BRIDGE RD/HARBOUR WAY

GENERAL INFORMATION PLAN

SCALE	N.T.S.	DATE	JUNE 15, 2009	CONTRACT NO.	BW996M82
DESIGNED BY	M. A. MEARS/J.E.S.	COUNTY	PRINCE GEORGES		
DRAWN BY	M. A. MEARS	LOGMILE	16030123.55		
CHECKED BY		TIMS NO.	J 458		
F.A.P. NO.	NA	TOD NO.			
TS NO.	3410E	DRAWING	G1-02	OF 02	SHEET NO. 2 OF 2

PLOTTED: Tuesday, June 16, 2009 AT 09:14 AM
FILE: F:\1996\1996-1234a\DES\TDD\USG-M002_US301@HARBOUR-GOVERNORS.dgn